TEST RESULTS OF GRADATION FOR BM
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-05-29-01** **Date: 30-05-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Ward Development work in Ward No.14, in Bagalagunte.
Agency	:	Technical Manager(West), KRIDL, Project Implementation unit, NO. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore.
Customer Reference	:	BBMP/EE/DD/WO/71/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-05-17
Sample ID No	:	2017-05-29-01/02
Type of Mix	:	BM (Bituminous Macadam)
Date of test	:	29-05-17

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	483	482
3	Bitumen percentage	$\frac{A-B}{A}$ X 100	3.40	3.60
4	Average percentage	%	3.50	

Prepared By:
Harshitha

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Lab ID : **CP-RW-2017-05-29-01** **Date: 30-05-17**

Sample ID No : **2017-05-29-01/02**

AFTER EXTRACTION(Trail-1)

Oven Dry Weight(gm) : 483

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0	100	100
19	15	15	3.1	96.9	90-100
13.2	65	80	16.6	83.4	56-88
4.75	256	336	69.6	30.4	16-36
2.36	87	423	87.6	12.4	4-19
0.3	27	450	93.2	6.8	2-10
0.075	10	460	95.2	4.8	0-8

AFTER EXTRACTION(Trail-2)

Oven Dry Weight(gm) : 482

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0	100	100
19	14	14	2.9	97.1	90-100
13.2	72	86	17.8	82.2	56-88
4.75	242	328	68.0	32.0	16-36
2.36	84	412	85.5	14.5	4-19
0.3	44	456	94.6	5.4	2-10
0.075	20	476	98.8	1.2	0-8

Note:-

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Prepared By:
Harshitha

ಜಿಲ್ಲಾಧಿಕಾರಿಗಳ ಕಾರ್ಯಾಲಯ ಅಭಿಯಂತರರು
ಕ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2017-06-01-01**	**Date: 03-06-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.	
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.	
Project Name	:	Ward Development work in Ward No.14, in Bagalagunte.	
Agency	:	Technical Manager(West), KRIDL, Project Implementation unit, NO. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore.	
Customer Reference	:	BBMP/EE/DD/WO/71/2017-18	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	01-06-17	
Sample ID No	:	2017-06-01-01/01	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	01-06-17	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	501	500
2	Weight of the sample After extraction	B	472	473
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.79	5.40
4	Average percentage	%	5.6	

Prepared By:
Harshitha

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ಬಿ.ಡಿ.ಎ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
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Lab ID : CP-RW-2017-06-01-01 **Date: 03-06-17**

Sample ID : 2017-06-01-01/01

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	75	79	16.7	83.3	70-88
4.75	106	185	39.2	60.8	53-71
2.36	52	237	50.2	49.8	42-58
1.18	65	302	64.0	36.0	34-48
0.6	27	329	69.7	30.3	26-38
0.3	32	361	76.5	23.5	18-28
0.15	24	385	81.6	18.4	12-20
0.075	55	440	93.2	6.8	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 473

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	7	7	1.5	98.5	90-100
9.5	82	89	18.8	81.2	70-88
4.75	96	185	39.1	60.9	53-71
2.36	75	260	55.0	45.0	42-58
1.18	37	297	62.8	37.2	34-48
0.6	43	340	71.9	28.1	26-38
0.3	42	382	80.8	19.2	18-28
0.15	11	393	83.1	16.9	12-20
0.075	56	449	94.9	5.1	4-10

Note:
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ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2017-06-01-01**	**Date: 03-06-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.	
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.	
Project Name	:	Ward Development work in Ward No.14, in Bagalagunte.	
Agency	:	Technical Manager(West), KRIDL, Project Implementation unit, NO. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore.	
Customer Reference	:	BBMP/EE/DD/WO/71/2017-18	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	01-06-17	
Sample ID No	:	2017-06-01-01/02	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	01-06-17	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	474	472
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.20	5.60
4	Average percentage	%	5.4	

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Lab ID : **CP-RW-2017-06-01-01** **Date: 03-06-17**

Sample ID : **2017-06-01-01/02**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 474

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	5	5	1.1	98.9	90-100
9.5	88	93	19.6	80.4	70-88
4.75	99	192	40.5	59.5	53-71
2.36	66	258	54.4	45.6	42-58
1.18	72	330	69.6	30.4	34-48
0.6	18	348	73.4	26.6	26-38
0.3	55	403	85.0	15.0	18-28
0.15	9	412	86.9	13.1	12-20
0.075	32	444	93.7	6.3	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	5	5	1.1	98.9	90-100
9.5	75	80	16.9	83.1	70-88
4.75	92	172	36.4	63.6	53-71
2.36	55	227	48.1	51.9	42-58
1.18	42	269	57.0	43.0	34-48
0.6	62	331	70.1	29.9	26-38
0.3	16	347	73.5	26.5	18-28
0.15	55	402	85.2	14.8	12-20
0.075	35	437	92.6	7.4	4-10

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TESTS RESULTS ON AGGREGATE IMPACT VALUE
(IS:2386 Part IV)

Lab ID	:	**CP-RW-2017-05-22-01**	**Date: 26-05-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.	
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.	
Project Name	:	Ward Development work in Ward No.14, in Bagalagunte.	
Agency	:	Technical Manager(West), KRIDL, Project Implementation unit, NO. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore.	
Customer Reference	:	BBMP/EE/DD/WO/71/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	22-05-17	
Sample ID No	:	2017-05-22-01/01	
Type of Mix	:	Coarse Aggregate for BC (Bituminous Concrete)	
Date of test	:	22-05-17	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	303.1	303.6
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	65.7	62.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	237.1	240.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.7
5	Aggregate impact value	(B/A)*100	21.7	20.5
6	Aggregate impact value (Mean of two tests)		21.1	

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